

# Converting Colors

XYZ(47.6534, 33.1349, 7.0174)

Have a look what the booklet for  
XYZ(47.6534, 33.1349, 7.0174)  
contains.

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# Color

**XYZ(47.6317, 33.0874,  
7.0080)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7033
RGB	255, 112, 51
RGB Percent	100%, 44%, 20%
CMY	0.0000, 0.5607, 0.8000
CMYK	0.00, 0.56, 0.80, 0.00
HSL	18°, 100%, 60%
HSV	18°, 80%, 100%
XYZ	47.6317, 33.0874, 7.0080
YIQ	147.8030, 104.8090, 11.3450

# Conversions

## Conversions Part 2

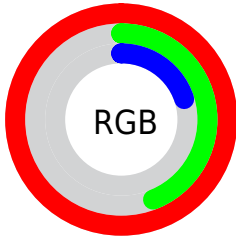
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 138, 51
Decimal	16740403
CIE <sub>Lab</sub>	64.23, 51.33, 58.18
CIE <sub>LCh</sub>	64, 77.583, 48.582
Yxy	33.0874, 0.5430, 0.3772
Android (android.graphics.Color)	4294930483 (0xFFFF7033)
YUV	147.8030, -47.7239, 94.0118
Hunter-Lab	57.5216, 47.1468, 33.0417

# Details

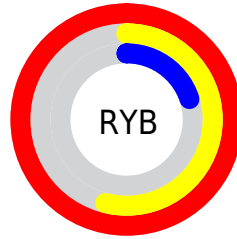
The XYZ color **47.6317, 33.0874, 7.0080** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **38.7051, 46.5036, 101.5431**, and the grayscale version is **28.2295, 29.6996, 32.3429**.

A 20% lighter version of the original color is **57.4570, 49.8567, 19.1654**, and **22.9989, 14.1025, 1.5099** is the 20% darker color. If you saturate the color by 10%, you get **45.4353, 29.3617, 4.2210**, and if you desaturate by 10%, it is **50.5288, 37.7228, 11.5474**.

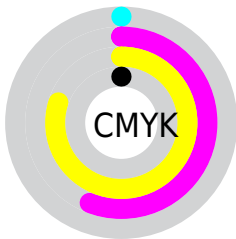
# Distribution



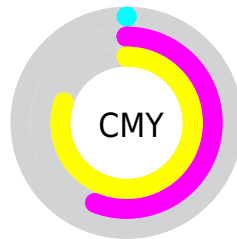
- Red (100%)
- Green (44%)
- Blue (20%)



- Red (100%)
- Yellow (54%)
- Blue (20%)



- Cyan (0%)
- Magenta (56%)
- Yellow (80%)
- Black (0%)




- Cyan (0%)
- Magenta (56%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.6317, 33.0874, 7.0080 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 47.6317, 33.0874, 7.0080 by changing the saturation by 10% instead.





 47.6317, 33.0874,  
7.0080


 47.6317, 33.0874,  
7.0080


367.9373,  
316.0434, 177.3636

 33.7454, 22.1934,  
3.3886


 85.8688, 64.5120,  
20.5024

 22.8600, 13.9991,  
1.2963


 110.9503, 85.8113,  
31.2146


 14.6103, 8.1200,  
0.0588


 140.4942,  
111.3479, 45.1280

 8.6309, 4.1718,  
0.0000

 174.8658,  
141.5062, 62.6612

 4.5564, 1.7702,  
0.0000

 214.4306,  
176.6704, 84.2329

 2.0215, 0.4685,  
0.0000

 259.5539,

 0.6460, 0.0000,

217.2251, 110.2615

0.0000

310.6010,  
263.5546, 141.1655

■ 0.0000, 0.0000,  
0.0000

■ 47.6317, 33.0874,  
7.0080

■ 47.6317, 33.0874,  
7.0080

■ 45.4353, 29.3617,  
4.2210

■ 50.5288, 37.7228,  
11.5474

■ 43.8422, 26.4648,  
2.7975

■ 54.1899, 43.3229,  
18.0769

■ 43.8420, 26.4646,  
2.7974

■ 58.6724, 49.9437,  
26.7982

■ 64.0274, 57.6354,  
37.8878

■ 70.3011, 66.4445,  
51.5037

■ 77.5364, 76.4145,  
67.7905

■ 85.7735, 87.5867,  
86.8814

95.0496, 99.9998,  
108.9000

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



56.0795, 33.0874, 19.9571



47.6317, 33.0874, 7.0080



35.8276, 33.0874, 3.2883

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



47.6317, 33.0874, 7.0080



14.9296, 33.0874, 25.3093



38.6868, 33.0874, 129.4414

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



47.6317, 33.0874, 7.0080



38.7051, 46.5036, 101.5431

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



27.4417, 33.0874, 134.0944



47.6317, 33.0874, 7.0080



15.3501, 33.0874, 59.0003

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



47.6317, 33.0874, 7.0080



18.0969, 33.0874, 8.9640



19.4217, 33.0874, 103.2817



50.1407, 33.0874, 92.8469



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



47.6317, 33.0874, 7.0080



28.3948, 33.0874, 3.1838



19.4217, 33.0874, 103.2817



34.7138, 33.0874, 135.3498

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



47.6324, 33.0893, 7.0085



74.5243, 72.2843, 60.9457



52.5245, 27.6680, 55.5156



15.4054, 14.7186, 11.8195



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



47.6324, 33.0893, 7.0085



44.4206, 27.5318, 3.2658



65.0818, 67.9879, 12.8250



18.4521, 18.8724, 18.8145



23.0216, 14.0544, 1.4994



2.3321, 1.5496, 0.1762



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



38.7051, 46.5036, 101.5431



34.8627, 40.6558, 100.6176



23.5256, 16.1445, 96.4832



18.0693, 19.5103, 23.0634



17.9642, 20.8379, 52.5099



1.8447, 2.2201, 5.1446



# Previews

## White Background



This preview shows how the XYZ color 47.6317, 33.0874, 7.0080 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.6317, 33.0874, 7.0080 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.6317, 33.0874, 7.0080**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.6317, 33.0874, 7.0080.



This preview shows how white text looks on a background with the XYZ color 47.6317, 33.0874,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

47.6317, 33.0874, 7.0080

### Protanopia

30.2412, 33.1345, 9.5043

### Deuteranopia

33.7211, 33.0621, 6.5238



## Tritanopia

49.5350, 32.9903, 19.6766

# Trichromacy



## Original Color

47.6317, 33.0874, 7.0080

## Protanomaly

34.7961, 31.7684, 8.4356

## Deuteranomaly

37.7153, 32.2541, 6.5233

## Tritanomaly

48.5970, 32.9526, 13.6967

# Monochromacy



## Original Color

47.6317, 33.0874, 7.0080

## Achromatopsia

28.1479, 29.6138, 32.2495

## Achromatomaly

32.1381, 29.0850, 19.5429

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.6317, 33.0874, 7.0080 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(255, 112, 51)` looks like.

```
.text, #text, p{  
    color:rgb(255, 112, 51)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(255, 112, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 112, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 47.6317, 33.0874, 7.0080 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 112, 51) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(255, 112, 51) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(255, 112, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 112, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 112, 51);  
box-shadow:4px 4px 4px 4px rgb(255, 112,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.6317, 33.0874, 7.0080 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 112, 51) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(255,  
112, 51) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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